Rica Esquivel

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SKILLS

Languages: Java, C, Python, SQL, JavaScript, HTML, CSS, x86 Assembly
Libraries & Frameworks: React, Snowpark, Scikit-Learn, XGBoost, Pandas
Methods: NLP, Machine Learning, Data ETL, Data Mining
Data & Cloud Platforms: **Docker**, AWS (EC2), MySQL, Snowflake
Tools: **Linux**, Git, Jupyter Notebooks, Vite
Coursework: Calculus (I, II, & III), Linear Algebra, Applied Combinatorics, Intro Computer Organization (I & II), Data Structures and Algorithms (I, II, & III), Cloud Software Development, Intro GUI Programming/Graphics, Programming Language Theory & Practice

WORK EXPERIENCE

Omnichannel Ops Intern – Tractor Supply Company, Brentwood TN   May 2025 – August 2025
- Designed and deployed a XGBoost ML system in Snowflake (Snowpark, Snowflake ML API, Python, SQL) to predict and reduce store cancellation risk and improve fulfillment reliability across 2,300+ stores and 30K+ SKUS.
- Automated data ingestion, inference, and batch uploads within Snowflake for secure, scalable, and cloud-native deployment, minimizing data egress.
- Achieved an estimated **$1.5M-$3M annual revenue recapture** and developed a Power BI dashboard to monitor model performance and business impact.

Data Scientist Intern – HII Mission Technologies, Virginia Beach VA   June 2024 – August 2024
- Developed a machine learning model to predict maintenance durations to reduce equipment downtime and delays with a natural language processing recommendation system for maintenance personnel.
- Designed and deployed an interactive dashboard with 3D digital twin modeling to visualize sustainment health metrics and asset readiness.
- Demonstrated the operational value of predictive analytics and NLP to enhance mission readiness and streamline sustainment processes.

PROJECTS

Navy CVN Maintenance Dashboard – Data visualization dashboard built using the Dash framework that employs digital twin concepts, visualizing US Navy CVN, powered by predictive analytics (ML), enabling data-driven decisions to optimize sustainment of Navy systems.
Mealprep App – Full-stack web application built in a team of 5 using MySQL database, ran using AWS EC2, where users browse meal recipes, customize weekly eating habits, and share customized meals using QR codes.

CERTIFICATIONS

NVIDIA Introduction to Transformer-Based Natural Language Processing   2025
IBM Data Science Professional Certificate   2025

EDUCATION

Georgia Institute of Technology (Georgia Tech), Atlanta GA   January 2026 – December 2027
Master of Science: Analytics
Virginia Polytechnic Institute and State University (Virginia Tech), Blacksburg VA   **Graduating December 2025**
Bachelor of Science: Computer Science

AWARDS

Dean's List – Virginia Tech (2 semesters)   Several
AFCEA Julie Walter Memorial Scholarship – AFCEA Educational Foundation   August 2024

LANGUAGES

English, Tagalog (Native)